

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1. (withdrawn): An adaptive electromagnetic wave-stirred exposure apparatus comprising:

an electromagnetic wave chamber;
one or more power amplifiers;
one or more electromagnetic wave generators; and
one or more electromagnetic wave sensors, said sensors disposed within said

electromagnetic wave chamber.

Claim 2. (withdrawn): The application of claim 1 wherein said electromagnetic wave-stirred exposure apparatus comprises a microwave-stirred exposure apparatus.

Claim 3. (withdrawn): The apparatus of claim 1 wherein said sensors detect selective absorption of electromagnetic wave frequencies by a device under examination, the device disposed within said electromagnetic wave chamber.

Claim 4. (withdrawn): The apparatus of claim 3 wherein said electromagnetic wave generator is automatically adjusted to compensate for said selective absorption.

Claim 5. (withdrawn): The apparatus of claim 1 further comprising one or more electromagnetic wave feeds into said chamber.

Claim 6. (withdrawn): The apparatus of claim 5 wherein said feeds comprise an x-axis feed, a y-axis feed, and a z-axis feed.

Claim 7. (withdrawn): The apparatus of claim 1 wherein said feeds comprise one or more wideband log-periodic antennas.

Claim 8. (withdrawn): The apparatus of claim 1 wherein said chamber comprises an electromagnetic wave reverberation chamber.

Claim 9. (withdrawn): The apparatus of claim 1 further comprising a processor for adjusting one or more of said generators.

Claim 10. (withdrawn): The apparatus of claim 9 wherein said processor comprises a computer.

Claim 11. (withdrawn): The apparatus of claim 9 wherein said processor first analyzes a power spectrum before adjusting one or more of said generators.

Claim 12. (withdrawn): The apparatus of claim 11 wherein said processor uses Fast Fourier Transforms to analyze the power spectrum.

Claim 13. (withdrawn): The apparatus of claim 9 wherein said processor first analyzes readings obtained from said sensors and then adjusts an output amplitude of said one or more amplifiers such that said readings obtained from said sensors are adaptively adjusted such that they remain substantially similar in a magnitude of their readings.

Claim 14. (withdrawn): The apparatus of claim 1 further comprising readings obtained from said sensors used to control said amplifiers and/or generator so as to create an adaptive system.

Claim 15. (Currently Amended): A method of adaptive electromagnetic wave stirring, the method comprising the steps of:

providing an electromagnetic wave chamber;

disposing a device to be tested within the chamber;

providing one or more power amplifiers;

disposing one or more sensors within said electromagnetic wave chamber;

providing one or more electromagnetic wave generators; and

~~obtaining readings from the sensors—~~

adjusting an output from the one or more electromagnetic wave generators, the one or more power amplifiers, or a combination thereof based on electromagnetic power field spectra readings obtained from the one or more sensors.

Claim 16. (Original): The method of claim 15 wherein the method of adaptive electromagnetic stirring comprises microwave stirring.

Claim 17. (Original): The method of claim 15 further comprising the step of providing a processor.

Claim 18. (Original): The method of claim 17 wherein the processor adjusts one or more of the generators based upon readings obtained from the sensors.

Claim 19. (Original): The method of claim 17 wherein the processor analyzes a power spectrum from readings obtained by the one or more sensors.

Claim 20. (Original): The method of claim 19 wherein the analyses is achieved by the processor performing Fast Fourier Transforms.

Claim 21. (Original): The method of claim 15 further comprising the step of adjusting the one or more power amplifiers based upon readings obtained from the one or more sensors.

Claim 22. (Original): The method of claim 21 wherein the step of adjusting the one or more power amplifiers is performed quickly and repetitiously so as to create an adaptive system.

Claim 23. (Original): The method of claim 17 wherein the step of providing a processor comprises providing a state-of-the-art processor.

Claim 24. (Original): The method of claim 17 wherein the step of providing a processor comprises providing a computer.